

CLAIMS

I Claim,

1. An improved pumping structure of a scroll compressor essentially comprised of the compressor including an orbiting scroll and a fixed scroll; a block fixed inside a casing of the compressor; a scroll fixation means to hold the fixed scroll in position and to limit the orbiting scroll to only revolve around the fixed scroll without revolving on its own axis; and coolant to provide compression results due to changed volume in multiple compression chambers in the fixed scroll and the orbiting scroll; wherein, the fixation means including multiple positioning seats fixed to the block at where in relation to the circumference of the fixed scroll, multiple corresponding suppressors being fixed to the top of those positioning seats to secure both of the fixed scroll and the block in position, and an Oldham ring provided between the orbiting scroll and the block for a limitation part of the Oldham ring to limit the direction of the orbiting scroll movement; is characterized by that: those positioning seats being fixed to the block by means of a stand ring, and the stand ring being coupled to the block after the block having been fixed inside the casing to minimize mechanical deformation of the block and the casing during the assembly process that may affect the precision of positioning seats and the fixed scroll.
2. An improved pumping structure of a scroll compressor as claimed in Claim 1, wherein, those positioning seats and the stand ring are integrated in one piece.

3. An improved pumping structure of a scroll compressor as claimed in Claim 1, wherein, those suppressors and those positioning seats are integrated in one piece.
4. An improved pumping structure of a scroll compressor as claimed in Claim 1, wherein, those positioning seats, those suppressors and the stand ring are integrated in one piece.
5. An improved pumping structure of a scroll compressor as claimed in Claim 1, wherein, those suppressors and those bolts are integrated in one piece.
6. An improved pumping structure of a scroll compressor as claimed in Claim 1, wherein, a positioning part fixed to the stand ring is provided to the Oldham ring.
7. An improved pumping structure of a scroll compressor as claimed in Claim 1, wherein, the stand ring is coupled to the block with multiple positioning pins, and then locked by bolts.
8. An improved pumping structure of a scroll compressor as claimed in Claim 1, wherein, multiple rest seats protrude from those positioning seats at where in relation to the circumference of the fixed scroll, corresponding grooves being provided on the fixed scroll to limit the descending level of the fixed scroll when those rest seats being caulked into their corresponding grooves so to maintain a minimum spacing between the fixed scroll and the orbiting scroll.
9. An improved pumping structure of a scroll compressor as claimed in Claims 1 and 8, wherein, the stand ring, those positioning seats and those rest seats are integrated in one piece.